

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

	SERIAL NUMBER	FILING DATE	FIRST NAME	D INVENTOR		ATTORNEY DOCKET NO.
_	07/657,170	02/15/91	STRAND		D	ECD-104
						EXAMINER
:	•			•	ROY, U	
	RONALD W. C	ITKOWSKI				
	KRASS & YOU	JNG DEAUED DO	ιΔτι		ART UNIT	PAPER NUMBER
	3001 W. BIG SUITE 624	BEHVER NO	·riD		111	#4
	TROY, MI 48	3084-3109			DATE MAILED:	08/09/91
C	his is a communication from OMMISSIONER OF PATEN	the examiner in charge TS AND TRADEMARKS	of your application. S			•
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b .,	This application has been	avaminad D	esponsive to communication f	51nd - 7-	16-91 6	This series is made final
			ction is set to expire			the date of this letter.
HIU	re to respond within the p	period for response v	vill cause the application to be	come abandonec	i. 35 U.S.C. 133	
art i	THE FOLLOWING A	TTACHMENT(S) AR	E PART OF THIS ACTION:		,	
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		ces Cited by Examine	• • • • • • • • • • • • • • • • • • • •		re Patent Drawing, I	
3.		d by Applicant, PTO-			of Informal Patent A	pplication, Form PTO-152
5.	Information on Ho	w to Effect Drawing (Changes, PTO-1474.	6. 🗀		· · · · · · · · · · · · · · · · · · ·
ert	II SUMMARY OF ACT	TION				
			1 00 0.4	_		
1.	. ZClaims		1-23, 25			are pending in the application.
						re withdrawn from consideration.
2	Claims				· · · · · · · · · · · · · · · · · ·	_ have been cancelled.
. 3	. 🖾 Claims	<u> </u>	, as			_ are allowed allows a
4	. Claims		1-8			are rejected.
5			<u> </u>			- .
6	i. Claims			ar	e subject to restrict	on or election requirement.
7	7. This application ha	as been filed with info	ormal drawings under 37 C.F.	R. 1.85 which are	acceptable for exam	nination purposes.
8	. Formal drawings a	re required in respor	ase to this Office action.			
9	The corrected or s are acceptable	ubstitute drawings he	ave been received on e (see explanation or Notice n	e Patent Drawing,	Unde PTO-948).	r 37 C.F.R. 1.84 these drawings
10			sheet(s) of drawings, filed on _ niner (see explanation).	· · · · · · · · · · · · · · · · · · ·	has (have) been	approved by the
11	. The proposed draw	ving correction, filed	, has	been 🗆 appro	ved; . disapprove	d (see explanation).
12	Acknowledgement been filed in pa	is made of the claim trent application, seri	for priority under U.S.C. 119	. The certified co	py has . D been rec	eived not been received
13			condition for allowance excep parte Quayle, 1935 C.D. 11; 4		ers, prosecution as t	the merits is closed in
14	. Cther					

EXAMINER'S ACTION

PTOL-326 (Rev.9-89)

Serial No. 657,170

Art Unit 111

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1-3, 5-8 rejected under 35 U.S.C. § 102(b) as anticipated by or, in the alternative, under 35 U.S.C. § 103 as obvious over Koshino et al. OP Young et al.

Broadly claimed invention is deemed met, see Koshino et al, the abstract or Young et al., fig. 5A-5B.

The interconversion of optical, electrical and thermal energy well known in the art and thus deemed obvious.

Serial No. 657,170

Art Unit 111

Claim 1-4 rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The expression "capable of" and "detectable characteristics' Vague of deemed because uncertain meanings. Claim 1 would read on alloys having allotropic transitions and not all combinations of Te, Ge and Sb work as amply taught by the applicant (see p.10-11).

Claims 9-23 and 25 are deemed allowable if written in independent form. The expression "first detectable characteristic" in claim 25 should be changed to read: "first detectable physical characteristic or properties index.

Strand, Ikegawa et al., Hennessey Minemura et al. Takagi et al. and Melton et al. cited being simulative of the level of prior art.

Applicant is invited ot submit prior art under 37 CFR 1.56.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to U. Resemberg whose telephone number is (703) 308-110 %.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

UPENDRA ROY
PRIMARY PATENT EXAMINER
ART UNIT 111

U. Roy:rg
August 06, 1991